DOCKET NO. SA-228

EXHIBIT NO. 17K

NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C.

FINAL REPORT: SAFETY TESTING OF LI-ION CELLS MANUFACTURERS X, Y, and Z

(BY: U.S. DEPARTMENT OF TRANSPORTATION)

FINAL REPORT

Safety Testing of Li-ion Cells Manufacturer X



Test # 337

June 28, 2001

Safety Test Summary Mfg. X Li-ion Cells Test # 337

Model A, Cylindrical Cell, 1600 mAh

Drill Penetration Test @ 100 % State of Charge

Three (3) cells were subjected to a Drill Penetration test. The cells were completely penetrated by a 3/16 inch steel jobbers drill bit. The cell skin temperature was continuously monitored during the test period. Upon penetration, there was no violent reaction, and the only visible reaction was liquid oozing from the cell. The highest peak skin temperature was 113 °C, while the lowest peak skin temperature was 99 °C.

Drill Penetration Test @ 50 % State of Charge

Three (3) cells were subjected to a Drill Penetration test. The cells were completely penetrated by a 3/16 inch steel jobbers drill bit. The cell skin temperature was continuously monitored during the test period. Upon penetration, and removal of the drill bit, there was no visible reaction. The highest peak skin temperature was 116 °C, while the lowest peak skin temperature was 107 °C.

Nail Penetration Test @ 100 % State of Charge

Three (3) cells were subjected to a Nail Penetration test. The cells were completely penetrated by an eight-penny nail. The cell skin temperature was continuously monitored during the test period. Upon penetration, the cells reacted with vapors emanating from, and liquid bubbling at the penetration hole. The highest peak skin temperature was 126 °C, while the lowest peak skin temperature was 113 °C.

Nail Penetration Test @ 50 % State of Charge

Three (3) cells were subjected to a Nail Penetration test. The cells were completely penetrated by an eight-penny nail. The cell skin temperature was continuously monitored during the test period. Upon penetration, the cells reacted with vapors emanating from, and liquid bubbling at the penetration hole. The highest peak skin temperature was 125 °C, while the lowest peak skin temperature was 118 °C.

Model B, Prismatic Cell, 620 mAh

Drill Penetration Test @ 100 % State of Charge

Three (3) cells were subjected to a Drill Penetration test. The cells were completely penetrated by a 3/16 inch steel jobbers drill bit. The cell skin temperature was continuously monitored during the test period. Upon penetration, the **first** cell reacted with the expulsion of a few burning particles. The **second** and **third** cells had no visible reaction. The highest peak skin temperature was 105 °C, while the lowest peak skin temperature was 76 °C.

Drill Penetration Test @ 50 % State of Charge

Three (3) cells were subjected to a Drill Penetration test. The cells were completely penetrated by a 3/16 inch steel jobbers drill bit. The cell skin temperature was continuously monitored during the test period. Upon penetration, and removal of the drill bit, the only visible reaction was liquid bubbling at the penetration hole. The highest peak skin temperature was 91 °C, while the lowest peak skin temperature was 80 °C.

Nail Penetration Test @ 100 % State of Charge

Three (3) cells were subjected to a Nail Penetration test. The cells were completely penetrated by an eight-penny nail. The cell skin temperature was continuously monitored during the test period. Upon penetration, there was no visible reaction. The highest peak skin temperature was 105 °C, while the lowest peak skin temperature was 104 °C.

Nail Penetration Test @ 50 % State of Charge

Three (3) cells were subjected to a Nail Penetration test. The cells were completely penetrated by an eight-penny nail. The cell skin temperature was continuously monitored during the test period. Upon penetration, the only visible reaction was the dripping of a small amount of liquid from the penetration hole. The highest peak skin temperature was 106 °C, while the lowest peak skin temperature was 105 °C.

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FINAL REPORT

Safety Testing of Li-ion Cells Manufacturer Y



Test # 339

June 28, 2001

Safety Test Summary Mfg. Y Li-ion Cells Test # 339

Model C, Cylindrical Cell, 1500 mAh

Drill Penetration Test @ 100 % State of Charge

Three (3) cells were subjected to a Drill Penetration test. The cells were completely penetrated by a 3/16 inch steel jobbers drill bit. The cell skin temperature was continuously monitored during the test period. Upon penetration, the **first** cell reacted with the expulsion of a lot of burning particles followed by liquid bubbling at the entry hole. The **second** cell, upon penetration, reacted with the expulsion of a lot of burning particles, and smoke emanating from the entry hole. The **third** cell reacted with the expulsion of some burning particles and smoke emanating from the entry hole. The highest peak skin temperature was 107 °C, while the lowest peak skin temperature was 47 °C.

Drill Penetration Test @ 50 % State of Charge

Three (3) cells were subjected to a Drill Penetration test. The cells were completely penetrated by a 3/16 inch steel jobbers drill bit. The cell skin temperature was continuously monitored during the test period. Upon penetration, all of the cells reacted with the expulsion of only a few burning particles. The highest peak skin temperature was 37 °C, while the lowest peak skin temperature was 36 °C.

Nail Penetration Test @ 100 % State of Charge

Three (3) cells were subjected to a Nail Penetration test. The cells were completely penetrated by an eight-penny nail. The cell skin temperature was continuously monitored during the test period. Upon penetration, the **first** cell only reacted with a small amount

of liquid oozing from the entry hole, while the **second** and **third** cells exhibited slightly more oozing accompanied by vapors emanating from the entry hole. The highest peak skin temperature was 122 °C, while the lowest peak skin temperature was 119 °C.

Nail Penetration Test @ 50 % State of Charge

Three (3) cells were subjected to a Nail Penetration test. The cells were completely penetrated by an eight-penny nail. The cell skin temperature was continuously monitored during the test period. Upon penetration, all of the cells only reacted with some liquid oozing from the entry hole. The highest peak skin temperature was 125 °C, while the lowest peak skin temperature was 120 °C.

Model D, Prismatic Cell, 875 mAh

Drill Penetration Test @ 100 % State of Charge

Three (3) cells were subjected to a Drill Penetration test. The cells were completely penetrated by a 3/16 inch steel jobbers drill bit. The cell skin temperature was continuously monitored during the test period. Upon penetration, the **first** and **second** cells reacted with the expulsion of a few burning particles. The **third** cell reacted with the expulsion of a moderate amount of burning particles. The highest peak skin temperature was 117 °C, while the lowest peak skin temperature was 44 °C.

Drill Penetration Test @ 50 % State of Charge

Three (3) cells were subjected to a Drill Penetration test. The cells were completely penetrated by a 3/16 inch steel jobbers drill bit. The cell skin temperature was continuously monitored during the test period. Upon penetration, all of the cells reacted with the expulsion of very few burning particles. The highest peak skin temperature was 124 °C, while the lowest peak skin temperature was 42 °C.

Nail Penetration Test @ 100 % State of Charge

Three (3) cells were subjected to a Nail Penetration test. The cells were completely penetrated by an eight-penny nail. The cell skin temperature was continuously monitored during the test period. Upon penetration, the **first** cell only reacted with a small puff of vapor emanating from the entry hole. The **second** and **third** cells exhibited some liquid oozing, accompanied by vapors emanating from the entry hole. The highest peak skin temperature was 125 °C, while the lowest peak skin temperature was 122 °C.

Nail Penetration Test @ 50 % State of Charge

Three (3) cells were subjected to a Nail Penetration test. The cells were completely penetrated by an eight-penny nail. The cell skin temperature was continuously monitored during the test period. Upon penetration, the **first** cell only reacted with vapors emanating from the entry hole. The **second** cell exhibited some liquid oozing, and the **third** cell only reacted with a small amount of vapor emanating from the entry hole. The highest peak skin temperature was 125 °C, while the lowest peak skin temperature was 119 °C.

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FINAL REPORT

Safety Testing of Li-ion Cells Manufacturer Z



Test # 338

June 28, 2001

Safety Test Summary Mfg. Z Li-ion Cells Test # 338

Model E, Cylindrical Cell, 1700 mAh Drill Penetration Test @ 100 % State of Charge

Three (3) cells were subjected to a Drill Penetration test. The cells were completely penetrated by a 3/16 inch steel jobbers drill bit. The cell skin temperature was continuously monitored during the test period. Upon penetration, the **first** cell reacted with the expulsion of a few burning particles, followed by liquid oozing from the entry hole. The **second** cell, upon penetration, reacted the same with the addition of vapors emanating from the entry hole. The **third** cell reacted with the expulsion of a few burning particles and smoke emanating from the entry hole. The highest peak skin temperature was 115 °C, while the lowest peak skin temperature was 111 °C.

Drill Penetration Test @ 50 % State of Charge

Three (3) cells were subjected to a Drill Penetration test. The cells were completely penetrated by a 3/16 inch steel jobbers drill bit. The cell skin temperature was continuously monitored during the test period. Upon penetration, the **first** cell reacted with the expulsion of a few burning particles, followed by vapors emanating from the entry hole. The **second** cell, upon penetration, reacted with the expulsion of a few burning particles and liquid oozing from the entry hole. The **third** cell reacted with the expulsion of a few burning particles, smoke, and liquid oozing from the entry hole. The highest peak skin temperature was 119 °C, while the lowest peak skin temperature was 116 °C.

Nail Penetration Test @ 100 % State of Charge

Three (3) cells were subjected to a Nail Penetration test. The cells were completely penetrated by an eight-penny nail. The cell skin temperature was continuously monitored during the test period. Upon penetration, all of the cells reacted with vapors emanating, and liquid oozing from the penetration hole. The highest peak skin temperature was 123 °C, while the lowest peak skin temperature was 119 °C.

Nail Penetration Test @ 50 % State of Charge

Three (3) cells were subjected to a Nail Penetration test. The cells were completely penetrated by an eight-penny nail. The cell skin temperature was continuously monitored during the test period. Upon penetration, all of the cells reacted with vapors emanating, and liquid oozing from the penetration hole. The highest peak skin temperature was 123 °C, while the lowest peak skin temperature was 122 °C.

Model F, Prismatic Cell, 1550 mAh

Drill Penetration Test @ 100 % State of Charge

Three (3) cells were subjected to a Drill Penetration test. The cells were completely penetrated by a 3/16 inch steel jobbers drill bit. The cell skin temperature was continuously monitored during the test period. Upon penetration, the **first** and **second** cells reacted with the expulsion of a few burning particles, followed by bubbling of liquid at the entry hole. The **third** cell, upon penetration, expelled only a single spark. The highest peak skin temperature was 115 °C, while the lowest peak skin temperature was 112 °C.

Drill Penetration Test @ 50 % State of Charge

Three (3) cells were subjected to a Drill Penetration test. The cells were completely penetrated by a 3/16 inch steel jobbers drill bit. The cell skin temperature was continuously monitored during the test period. Upon penetration, the **first** cell reacted with the

expulsion of a few burning particles, followed by bubbling of liquid at the entry hole. The **second** and **third** cells, upon penetration, exhibited no visible reaction. The highest peak skin temperature was 123 °C, while the lowest peak skin temperature was 116 °C.

Nail Penetration Test @ 100 % State of Charge

Three (3) cells were subjected to a Nail Penetration test. The cells were completely penetrated by an eight-penny nail. The cell skin temperature was continuously monitored during the test period. Upon penetration, all of the cells reacted with vapors emanating, and liquid oozing from the penetration hole. The highest peak skin temperature was 123 °C, while the lowest peak skin temperature was 119 °C.

Nail Penetration Test @ 50 % State of Charge

Three (3) cells were subjected to a Nail Penetration test. The cells were completely penetrated by an eight-penny nail. The cell skin temperature was continuously monitored during the test period. Upon penetration, all of the cells reacted with a small to moderate amount of liquid oozing from the penetration hole. The highest peak skin temperature was 116 °C, while the lowest peak skin temperature was 114 °C.

Model G, Prismatic Cell, 600 mAh

Drill Penetration Test @ 100 % State of Charge

Three (3) cells were subjected to a Drill Penetration test. The cells were completely penetrated by a 3/16 inch steel jobbers drill bit. The cell skin temperature was continuously monitored during the test period. Upon penetration, the **first** cell reacted with only a small puff of smoke. The **second** cell expelled a single burning particle. The **third** cell, upon penetration, exhibited no visible reaction. The highest peak skin temperature was 116 °C, while the lowest peak skin temperature was 73 °C.

Drill Penetration Test @ 50 % State of Charge

Three (3) cells were subjected to a Drill Penetration test. The cells were completely penetrated by a 3/16 inch steel jobbers drill bit. The cell skin temperature was continuously monitored during the test period. Upon penetration, none of the cells exhibited any visible reaction. The highest peak skin temperature was 126 °C, while the lowest peak skin temperature was 112 °C.

Nail Penetration Test @ 100 % State of Charge

Three (3) cells were subjected to a Nail Penetration test. The cells were completely penetrated by an eight-penny nail. The cell skin temperature was continuously monitored during the test period. Upon penetration, none of the cells exhibited any visible reaction. The highest peak skin temperature was 114 °C, while the lowest peak skin temperature was 108 °C.

Nail Penetration Test @ 50 % State of Charge

Three (3) cells were subjected to a Nail Penetration test. The cells were completely penetrated by an eight-penny nail. The cell skin temperature was continuously monitored during the test period. Upon penetration, all of the cells exhibited liquid oozing from the entry hole. The highest peak skin temperature was 118 °C, while the lowest peak skin temperature was 103 °C.

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NAIL											
4 5 4	No	REA	CHON	. No E	EL GOTA EL GOTA	LYTE L	EAKAC	s E	MAYT	Emp: Emp: Emp:	108
							et :				
REMARK	S: #	2 BE	GAN	w/ 17	'c UN	I DER	CELL				
NEW POLY	· ~ .			, ,	_		·				

CELL TYPE: MODEL G LOT NO: MFG Z 50 90 SOC TESTED BY: NCL DATE: 6-15-01 TEST PURPOSE: SAFETY						TEST SPEC NO.: TEST #338 DESCRIPTION: DRILL & NAIL OPERATIONAL PACKAGED NON-OPERATIONAL UNPACKAGED *LOAD:						
SERIAL NO.	/	NITIAL /	PRE-TES	<i>T.</i>		Pos	T ENVIROR	MENT	FINAL	_		
DRILL												
1	NO	BURI	UNG /	ARMO	ces				MAKT			
2	NO			ŧ .	MOCE	5			MAX TE		1	
3	w	BURK	VING	PART	cces				MAKTO	emp -	112	
. \							<u> </u>	<u> </u>				
NAIL	1100		-711						MAKTE	WP =	103	
4			0211					.,	MAXTE			
5			PZING	1					MAX TE			
4	219	and a	DZING									
	<u> </u>											
								<u></u>				
					·						<u> </u>	
REMARK	S: 7/	c un	DEC (ピモトレ	-		·					